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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,276	08/05/2003	Andreas Fath	071308.0463	7127
31625 7:	590 05/25/2005		EXAMINER	
BAKER BOT	TS L.L.P.	KIM, CHRISTOPHER S		
PATENT DEPARTMENT 98 SAN JACINTO BLVD., SUITE 1500		ART UNIT	PAPER NUMBER	
AUSTIN, TX	78701-4039		3752	

DATE MAILED: 05/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			MW
	Application No.	Applicant(s)	
0.00	10/634,276	FATH ET AL.	
Office Action Summary	Examiner	Art Unit	
	Christopher S. Kim	3752	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence add	dress
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a re n. a reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MON tatute, cause the application to become AB/	eply be timely filed (30) days will be considered timely THS from the mailing date of this con ANDONED (35 U.S.C. § 133).	: mmunication.
Status			
 1) Responsive to communication(s) filed on 0 2a) This action is FINAL. 2b) 5 3) Since this application is in condition for allocation in accordance with the practice und 	This action is non-final. Dwance except for formal matte	·	merits is
Disposition of Claims			
4) ☐ Claim(s) 1-10 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyand rection is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CF	• •
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the paplication from the International But * See the attached detailed Office action for a	nents have been received. The sents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National S	Stage
Attachment(s) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	ummary (PTO-413)	
P) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date		//Mail Date formal Patent Application (PTO- _·	-152)

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DETAILED ACTION

Response to Amendment

1. The response filed May 2, 2005 is acknowledged.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Germany on February 8, 2001. It is noted, however, that applicant has not filed a certified copy of the German application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 112

4. Claims 5 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 recites the limitations "the same included angle" in line 3. There is insufficient antecedent basis for this limitation in the claim

Claim 10 recites the limitations "the same included angle" in line 3. There is insufficient antecedent basis for this limitation in the claim

5. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hofmann et al. (WO 99/30028).

Hofmann discloses a fuel injection valve comprising: a nozzle body 30; a nozzle needle 10; conical nozzle needle tip 12; frusto-conical body section 51.

6. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Ushimura (4,470,548).

Ushimura discloses a fuel injection valve comprising: a nozzle body 14; a nozzle needle 12; conical nozzle needle tip 40; frusto-conical body section 36.

7. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Holzgrefe (4,982,901).

Holzgrefe discloses a fuel injection valve comprising: a nozzle body 15; a nozzle needle 6; conical nozzle needle tip 21; frusto-conical body section 20.

8. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Holzgrefe et al. (5,012,981).

Holzgrefe discloses a fuel injection valve comprising: a nozzle body 15; a nozzle needle 6; conical nozzle needle tip 21; frusto-conical body section 20.

Response to Arguments

9. Applicant's arguments filed May 2, 2005 have been fully considered but they are not persuasive.

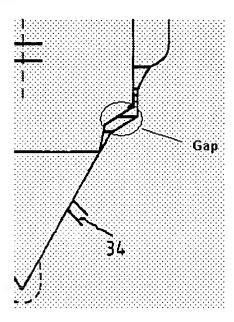
Applicant argues that Hill does not anticipate the present claims. Hill has not been applied in the this Office action or the prior Office action.

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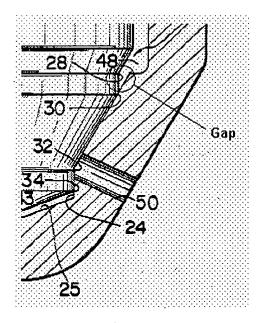
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Applicant argues that Hoffman, Ushimura and Holzgrefe do not disclose "an outer surface of the nozzle needle running essentially parallel to an inner surface of the nozzle body in the region of the gap.

Hoffman discloses such a gap:



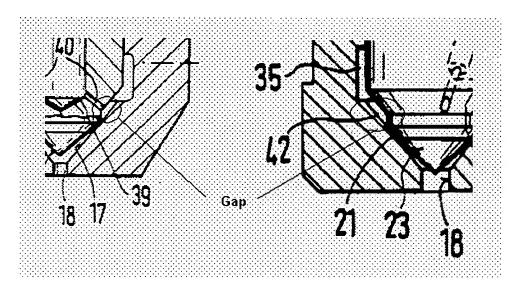
Ushimura discloses such a gap:



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Holzgrefe discloses such a gap:



Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher S. Kim Primary Examiner Art Unit 3752